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(71) Applicant (for all designated States except US): HOLSET ENGINEERING CO. LIMITED [GB/GB]; St. Andrews Road, Huddersfield HD1 6RA (GB).

(72) Inventor; and

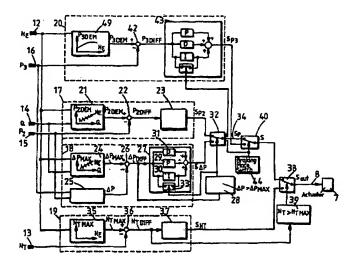
- (75) Inventor/Applicant (for US only): CADDY, Stephen, William [GB/GB]; 10 Osprey Drive, Netherton, Huddersfield, W. Yorks HD4 7RG (GB).
- (74) Agent: ALLMAN, Peter, John; Marks & Clerk, Sussex House, 83-85 Mosley Street, Manchester M2 3LG (GB).

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#### (54) Title: VARIABLE GEOMETRY TURBOCHARGER CONTROL SYSTEM



#### (57) Abstract

A control system for a variable geometry turbocharger having a turbine driven by exhaust gas delivered to an exhaust gas inlet of the turbocharger from an engine exhaust manifold and a compressor driven by the turbine to deliver air to an engine intake manifold via an air oullet of the turbocharger. The differential pressure across the engine is monitored, and a closed loop control system adjusts the variable geometry mechanism to prevent the differential pressure exceeding a predetermined limit. In engine braking mode the variable geometry mechanism may be actuated by a signal representative of the exhaust manifold pressure. An override circuit may be provided to control the variable geometry mechanism in the event of the turbocharger rpm exceeding a predetermined limit.